SIEMENS

www.siemens.com/diagnostics

Dimension Vista LOCI Vitamin B12 Assay Specifications

The Dimension Vista® LOCI® Vitamin B12 assay is an in vitro diagnostic test for the quantitative measurement of vitamin B12 in human serum and plasma on the Dimension Vista System. Measurements of vitamin B12 may be used in the diagnosis of vitamin B12 deficiency.

Clinical Utility

- Primarily stored in the liver and released on demand. The body uses B12 very efficiently, reabsorbing B12 from the small intestine and returning it to the liver so little is excreted and nutritional deficiency is extremely rare.
- Necessary for DNA synthesis, normal red blood cell maturation and myelin sheath formation and maintenance.
- A coenzyme in the conversion of methylmalonic acid to succinic acid and in the synthesis of methionine.
- Intrinsic factor (IF), transcobalamin II (TCII), and haptocorrin (HC) are binding proteins necessary for the assimilation, transport, and delivery of B12 to the blood and body tissues.
- Essential vitamin found in a variety of foods such as fish, shellfish, meats, and dairy products.

The Vitamin B12 assay from Siemens offers:

- Excellent performance — patented LOCI homogeneous chemiluminescent technology
- Accuracy — aligned to WHO reference standard
- Small Sample Volume — viable sample type (serum/plasma)
- Optimization — mitigates IFBA interference
- Wide analytical measuring range

Dimension Vista® 1500 System

Answers for life.

Dimension Vista LOCI Vitamin B12 Assay

The Dimension Vista Vitamin B12 assay will help labs consolidate anemia and chemistry testing onto one system, leading to increased workflow efficiency and reduced operational costs. The addition of Vitamin B12 provides the laboratory with one of the most comprehensive menus for the detection and differentiation of anemia available on one system (Iron, TIBC, Ferritin, Transferrin, soluble Transferrin Receptor, Vitamin B12, Folate, Haptoglobin, and Homocysteine).

The Dimension Vista systems offer the ultra-integration of four advanced detection technologies including photometry, nephelometry, V-LYTE® electrolyte, and LOCI advanced chemiluminescence, resulting in a broad test menu.

Performance Summary

	Sample Type	Sample Volume	Assay Range	Functional Sensitivity	Calibration Interval	Open Well Stability	Onboard Stability (Sealed Wells)	Time-to-First Result
LOCI Vitamin B 12	Serum Plasma (heparin/EDTA)	12µL	60–2000 pg/mL 44–1476pmol/L	LOB: 18 pg/mL LOD: 28 pg/mL LOQ: 60 pg/mL	21 days	3 days	30 days	32 minutes

Ordering Information

Catalog No.	Contents	No. of Tests
K6442A (SMN 0475489)	Dimension Vista LOCI Vitamin B12 Flex® reagent cartridge	15 tests/well set, 30 tests/flex, 120 tests/kit (4 flexes)
KC640A (SMN 0476172)	LOCI 4 Calibrator	2 x 5 levels

Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

Global Siemens Headquarters
Siemens AG
Wittelsbacherplatz 2
80333 Muenchen
Germany

Global Siemens Healthcare Headquarters
Siemens AG
Healthcare Sector
Henkestrasse 127
91052 Erlangen
Telephone: +49 9131 84-0
Germany
www.siemens.com/healthcare

Global Division
Siemens Healthcare Diagnostics Inc.
511 Benedict Avenue
Tarrytown, NY 10591-5005
USA
www.siemens.com/diagnostics

Order No. A91DX-CAI-130134-GC1-4A00
03-2013 | All rights reserved